



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days
PO038993	ACI001-VC	2	1	Net 30	M6061T6R4.000	6061-T6 Round Bar 4.000": MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				6	1/2/2018	6		S037941	Stock	2/1/2018	\$ 42.41 / ft	0
		3			M6061T6R1.000	Round Bar 1.000": MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				20		20		S037942	Stock	2/1/2018	\$ 2.55 / ft	0
		4			M6061T6R2.250	6061-T6 Round Bar 2.250": MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				6		6		S037943	Stock	2/1/2018	\$ 14.19 / ft	0
		5			M304R0.4375	304 Round Bar 0.4375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12		12		S037944	Stock	2/1/2018	\$ 1.53 / ft	0
		6			M304R0.375	304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				24		24		S037945	Stock	2/1/2018	\$ 1.19 / ft	0
		8			M303R0.750	303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft				96		96		S037946	Stock	2/1/2018	\$ 4.85 / ft	0
		12			M1018B1.000X03.000 <i>ASTM</i>	1010-1025 Steel Bar 1.000 X 3.000 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W				12		12		S037947	Stock	2/1/2018	\$ 10.20 / ft	0
		17			M1018R0.250	M1018R0.250 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108						12		S037948	Stock	2/1/2018	\$ 0.16 / ft	0
		18			M1018R2.00	M1018R2.00 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft				20		20		S037949	Stock	2/1/2018	\$ 9.61 / ft	0
Total:										208		208						

DELIVERY - CLIENT

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2018/01/29
Delivery date 2018/01/30
Your order N° PO038893
Processed by Stephanie Dignard
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

Shipped to

Billed to
DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
1		ROUND ALU 4 6061-T6 RANDOM RAL-4-V 1 X 6" COUPE A LA SCIE SCIE 1	88.58	6.00	PI_\$CLB		1 X 6"		6		
2		ROUND ALU 1 6061-T6 RANDOM RAL-1-V 1 X 20"	18.50	20.00	PI_\$CLB		1 X 20"		20		
3		ROUND ALU 2 1/4 6061-T6 RANDOM RAL-214-V 1 X 6"	28.02	6.00	PI_\$CLB		1 X 6"		6		

NIR : R-109516-6



DELIVERY - CLIENT

CO00071759

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2018/01/29

Delivery date **2018/01/30**

Your order N° PO038893

Processed by Stephanie Dignard

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 2

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	OUT
COUPE A LA SCIE SCIE 1		1.00	UN							
4 ROUND SS 7/16 304 RANDOM RSS-716-V 5779 1 X 12' R/L	6.13	12.00	PI_\$CLB		14 122		12			
5 ROUND SS 3/8 304 RANDOM RSS-38-V 5768 2 X 12' R/L	9.02	24.00	PI_\$CLB		24 124		24			
6 ROUND SS 1 303 RANDOM RSS-1303-V 8519 2 X 12' R/L	64.08	24.00	PI_\$CLB			24				

NIR : R-109516-6

Next Page...

DELIVERY - CLIENT

ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2018/01/29

Delivery date 2018/01/30

Your order N° PO038893

Processed by Stephanie Dignard

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 3

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
7		ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 8 X 12' R/L	144.19	96.00	PI_\$CLB		1x14' 5x13'10"		96		
8		FLAT CR 1 X 3 1018 RANDOM FCR-13-V 2777 1 X 12' R/L	122.40	12.00	PI_\$CLB		1x 12'4"		12		
9		ROUND CR 1/4 1018 RANDOM RCR-14-V 5277 1 X 12' R/L	2.00	12.00	PI_\$CLB		1x 12'1"		12		
10		ROUND CR 2 1018 RANDOM RCR-2-V 5319 1 X 20' R/L	213.60	20.00	PI_\$CLB		1x 20'6"		20		

NIR : R-109516-6

Next Page...

DELIVERY - CLIENT



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056
Date 2018/01/29
Delivery date 2018/01/30
Your order N° PO038893
Processed by Stephanie Dignard
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 4

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
11 ALU SHEET 1/8 2024-T3 RANDOM NS FEAL-182024-V 8603 1 X 4' X 8'	56.38	32.00	PI2_\$CLB			B/O			

NIR : R-109516-6

Total Weight (Lbs) : 752.90

Conditions : All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total (\$CAD)

Prepared By :
Verified By :
Delivered By :
Time

Customer's Signature
Date



ACIER OUELLETTE INC.

935, Boul. du Hiver
Salierry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MB: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MB: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy CO00071759

Customer N° CL10001056
Date 2018/01/29
Delivery date 2018/01/30
Your order N° PO038893
Processed by Stephanie Dignard
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,
Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only			
				CMD	EXP	B/O	IN	I	S C
1 ROUND ALU 4 6061-T6 RANDOM RAL-4-V 5163 1 X 6' HEAT: SXA171313 COUPE A LA SCIE SCIE 1	88.58	6.00	PI_\$CLB	1.00					
2 ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141 1 X 20' HEAT: SXB150069 ROUND ALU 2 1/4 6061-T6 RANDOM RAL-214-V 5145 1 X 6' HEAT: 68252 COUPE A LA SCIE SCIE 1	18.50	20.00	PI_\$CLB	1.00					
	28.02	6.00	PI_\$CLB	1.00					
		1.00	UN						

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy CO00071759

Customer N° CL10001056

Date 2018/01/29

Delivery date 2018/01/30

Your order N° PO038893

Processed by Stephanie Dignard

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 2

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

ATT : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	S/O	IN	I	S C
4 ROUND SS 7/16 304 RANDOM RSS-716-V 5779 1 X 12' R/L HEAT: 102465	6.13	12.00	PL \$CLB	1.00					
5 ROUND SS 3/8 304 RANDOM RSS-38-V 5768 2 X 12' R/L HEAT: CH-3840	9.02	24.00	PL \$CLB	2.00					
6 ROUND SS 1 303 RANDOM RSS-1303-V 8519 2 X 12' R/L HEAT: 232X	64.08	24.00	PL \$CLB	2.00					
7 ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 8 X 12' R/L HEAT: CH-6094	144.19	96.00	PL \$CLB	8.00					

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Safaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy CO00071759

Customer N° CLI0001056
Date 2018/01/29
Delivery date 2018/01/30
Your order N° PO038893
Processed by Stephanie Dignard
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 3

Shipped to

Billed to
DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,
At: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only			
				CMD	EXP	B/O	IN	I	S C
8 FLAT CR 1 X 3 1018 RANDOM FCR-13-V 2727 1 X 12' R/L HEAT: 171456	122.40	12.00	PL \$CLB	1.00					
9 ROUND CR 1/4 1018 RANDOM RCR-14-V 5277 1 X 12' R/L HEAT: 41480 GM	2.00	12.00	PL \$CLB	1.00					
10 ROUND CR 2 1018 RANDOM RCR-2-V 5319 1 X 20' R/L HEAT: 41607 AG	213.60	20.00	PL \$CLB	1.00					
11 ALU SHEET 1/8 2024-T3 RANDOM NS REAL 182024-V 8603 1 X 4' X 8' HEAT:	56.38	32.00	PI2 \$CLB	1.00					

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Hêtre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy CO00071759

Customer N° CL10001056

Date 2018/01/29

Delivery date 2018/01/30

Your order N° PO038893

Processed by Stephanie Dignard

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 4

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route S

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C OUT
SURCHARGE ENERGÉTIQUE FRAIS_ENERGÉTIQUE			\$	0.00					

Total Weight (LBS) : 752.90

NJR : R-109516-6

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered by the manufacturer and its warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay acceleration charges of 2% per month (24% per annum) on all part due amounts over 15 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repurchase of the goods sold. All claims must be made within 15 (15) days with this document enclosed. Any merchandise that has been damaged, lost or misused cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Y M D

Total (\$CAD)

Deposit

Balance

2 228.76

0.00

2 228.76



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038893**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038893
PO Date: 1/29/18
Due Date: 1/31/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

E-MAILED

JAN 29 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M6061T6R1.625		6061T6 Round Bar 1.625 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	1/31/18	12 ft	0 ft	12 ft	\$6.7225/ft	\$80.67
2	M6061T6R4.000		6061-T6 Round Bar 4.000" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	1/31/18	6 ft	0 ft	6 ft	\$42.405/ft	\$254.43

FEB 01 2018

DAS
11
9-89

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	M6061T6R1.000		Round Bar 1.00" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	1/31/18	20 ft	0 ft	20 ft	\$2.5525/ft	\$51.05
4	M6061T6R2.250		6061-T6 Round Bar 2.250" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	1/31/18	6 ft	0 ft	6 ft	\$14.18666/ft	\$85.12
5	M304R0.4375		304 Round Bar 0.4375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	1/31/18	12 ft	0 ft	12 ft	\$1.5325/ft	\$18.39
6	M304R0.375		304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	1/31/18	24 ft	0 ft	24 ft	\$1.188/ft	\$28.51
7	M303R1.000		303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	1/31/18	24 ft	0 ft	24 ft	\$8.0620833/ft	\$193.49
8	M303R0.750		303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	1/31/18	96 ft	0 ft	96 ft	\$4.8507291/ft	\$465.67
9	MT-4140QT-R1.375		MT-4140 QT-R1.375 : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	1/31/18	20 ft	0 ft	20 ft	\$9.3885/ft	\$187.77

FEB 01 2018

DAS
11
9-89

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
10	MT-4140QT-R2.250		AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	1/31/18	20 ft	0 ft	20 ft	\$21.7605/ft	\$435.21
11	MT-A513-T-4.000W0.120		A513 Seamless Alloy Steel Round Tubing 4"dia. x 0.120" Wall	Firmed	1/31/18	20 ft	0 ft	20 ft	\$19.35/ft	\$387.00
12	M1018B1.000X03.000		1010-1025 Steel Bar 1.000 X 3.000 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W	Firmed	1/31/18	12 ft	0 ft	12 ft	\$10.195/ft	\$122.34
13	M303B1.000X1.000		M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/7/18	12 ft	0 ft	12 ft	\$9.52/ft	\$114.24
14	M303B1.000X03.000		303 Bar 1" X 3" : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/13/18	12 ft	0 ft	12 ft	\$75.33/ft	\$903.96
15	M304B0.750X2.500		304 Bar .750 X 2.50 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	2/1/18	12 ft	0 ft	12 ft	\$24.221666/ft	\$290.66
16	M304B0.500X2.500		304 Bar .500 X 2.50 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	1/31/18	12 ft	0 ft	12 ft	\$13.468333/ft	\$161.62
17	M1018R0.250		M1018R0.250 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108	Firmed	1/31/18	12 ft	0 ft	12 ft	\$0.16/ft	\$1.92
18	M1018R2.00		M1018R2.00 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft	Firmed	1/31/18	20 ft	0 ft	20 ft	\$9.6065/ft	\$192.13

FEB 01 2018

DAS
11
9-89

PURCHASE ORDER

Line Item	Part	Supplier Part No	Items							
			Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
19	M2024T3S.125		2024-T3 .125 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Firmed	1/31/18	32 sf	0 sf	32 sf	\$17.35469/sf	\$555.35
20	M5052H32S.032		5052-H32 .032 Sheet : MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209 receive sf	Firmed	1/31/18	64 sf	0 sf	64 sf	\$2.59375/sf	\$166.00
Grand Total:									\$4,695.53	

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents
A048 counterfeit parts avoidance, detection, mitigation and disposition program
A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



Plex 1/29/18 12:46 PM dart.lavoie.chantal

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0081335****Billed to**

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

6061T6B
2.5 x 4.5 -

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/01/19

Revision N°

0

Prices valid until

2018/01/26

Your Order N°**Processed by**

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND ALU 1 5/8 6061-T6 RANDOM RAL-158-V 5138 1 X 12' STOCK	29.23	12.00	PI_\$CLB	12.00	PI		1.00	80.670	80.67
ROUND ALU 4 6061-T6 RANDOM RAL-4-V 5163 1 X 6' STOCK COUPE A LA SCIE SCIE 1	88.58	6.00	PI_\$CLB	6.00	PI		1.00	254.430	254.43
ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141 1 X 20' STOCK	18.50	20.00	PI_\$CLB	20.00	PI		1.00	51.050	51.05
ROUND ALU 2 1/4 6061-T6 RANDOM RAL-214-V 5145 1 X 6' STOCK COUPE A LA SCIE SCIE 1	28.02	6.00	PI_\$CLB	6.00	PI		1.00	85.120	85.12
ROUND SS 7/16 304 RANDOM RSS-716-V 5779 1 X 12' R/L STOCK	6.13	12.00	PI_\$CLB	12.00	PI		1.00	18.390	18.39
ROUND SS 3/8 304 RANDOM RSS-38-V 5768 2 X 12' R/L STOCK	9.02	24.00	PI_\$CLB	24.00	PI		2.00	14.255	28.51
ROUND SS 1 303 RANDOM RSS-1303-V 8519 2 X 12' R/L STOCK	64.08	24.00	PI_\$CLB	24.00	UN_\$UN		2.00	96.745	193.49
ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 8 X 12' R/L 2-3 DAYS	144.19	96.00	PI_\$CLB	96.00	PI		8.00	58.208	465.67

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0081335

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

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Salesman

JOSIANNE

Carrier

OUELLE SDV

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Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND 4140 HT 1 3/8 NS R4140-138H 9252 1 X 20' R/L 2-3 DAYS	100.98	20.00	PI_\$CLB	20.00	UN_\$UN		1.00	187.770	187.77
ROUND 4140 HEAT TREAT 2 1/4 RANDOM R4140-214H-V 4927 1 X 20' R/L 2-3 DAYS	270.40	20.00	PI_\$CLB	20.00	PI		1.00	435.210	435.21
TUBE MECH. A513 4" OD X .120 N 1 X 20' R/L 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	387.000	387.00
FLAT CR 1 X 3 1018 RANDOM FCR-13-V 2727 1 X 12' R/L STOCK	122.40	12.00	PI_\$CLB	12.00	PI		1.00	122.340	122.34
SQUARE SS 1 SS303 NS CSS-1303 9512 1 X 12' R/L 1 WEEK	40.80	12.00	PI_\$CLB	12.00	UN_\$UN		1.00	114.240	114.24
PLAT SS303 1 X 3 N 1 X 12' R/L 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	904.000	904.00
FLAT SS 3/4 X 2 1/2 SS304 RANDOM NS FSS-34212-V 8747 1 X 12' R/L 2-3 DAYS	76.50	12.00	PI_\$CLB	12.00	UN_\$UN		1.00	290.660	290.66
FLAT SS 1/2 X 2 1/2 SS304 RANDOM NS FSS-12212-V 8302 1 X 12' R/L	51.48	12.00	PI_\$CLB	12.00	PI		1.00	161.620	161.62
ROUND CR 1/4 1018 RANDOM RCR-14-V 5277 1 X 12' R/L STOCK	2.00	12.00	PI_\$CLB	12.00	PI		1.00	1.920	1.92
ROUND CR 2 1018 RANDOM RCR-2-V 5319 1 X 20' R/L STOCK	213.60	20.00	PI_\$CLB	20.00	PI		1.00	192.130	192.13

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248
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Att : CHANTAL LAVOIE T l.: 613-632-5200

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ROUND 4140 HT 1 3/8 NS R4140-138H 9252 1 X 20' R/L 2-3 DAYS	100.98	20.00	PI_\$CLB	20.00	UN_\$UN		1.00	187.770	187.77
ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V 4245 1 X 6 1/4" X 96" STOCK SHEAR CUT SHEAR 2	18.30	5.00	PI2_\$CLB	5.00	PI2		1.00	85.870	85.87
ALU SHEET 1/8 2024-T3 RANDOM NS FEAL-182024-V 8603 1 X 4' X 8' STOCK	56.38	32.00	PI2_\$CLB	32.00	PI2		1.00	555.350	555.35
ALU SHEET .032 (20G) 5052-H32 NS FEAL-032 9714 2 X 4' X 8' 2-3 DAYS	28.86	64.00	PI2_\$CLB	64.00	UN_\$UN		2.00	83.000	166.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs)

1 470.43

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

This offer is subject and conditional to credit approval.

Approved and Accepted by :

Date :

Sub-total

4 973.16

TVH-13 · · 646.51

Total (\$CAD)

5 619.67

Chantal Lavoie

From: Chantal Lavoie
Sent: Friday, January 19, 2018 11:35 AM
To: 'Josianne Bourdon'
Cc: Diane Baker
Subject: quote

Good morning Josianne,
Please advise price and delivery on mat'l.

6061t6 round bar 1.625" x 12 ft
6061-t6 round bar 4" x 6 ft
6061-t6 round bar 1" x 12 ft
6061-t6 round bar 2.250" x 6 ft

304 round bar 0.4375 x 12 ft
304 round bar 0.375" x 24 ft

303 round bar 1" x 24 ft
303 round bar 0.750" x 96 ft

4140 qt 1.375" x 12 ft
4140 qt 2.250" x 12 ft

A513 round bar 4" x 0.120 wall x 12 ft

1018 bar 1" x 3" x 12 ft

303 bar 1" x 1" x 12 ft
303 bar 1" x 3" x 12 ft

304 bar 0.750" x 2.5" x 12 ft
304 bar 0.500" x 2.50" x 12 ft

1018 round bar 0.250" x 12 ft
1018 round bar 2.00" 20 ft

4140h round bar 1.375" x 12 ft

6061-t6 bar or plate 0.250" x 6.250" x 8 ft

2024t3 sheet .125" x 32 sf

5052h32 sheet .032" x 64 sf

Thanks
Chantal Lavoie
Purchasing Coordinator

5163

RAL-4-V

TRA 1915

49124



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: 8 August, 2017

Applicant/Consignee: SINOMETAL RESOURCES INC.
4455 RUE COUSSENS SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: 17-P-292

Shipping Ref No.: 17-1489

LC No.: DC HMN713076

Date of issue: 28 July, 2017

Item Code: 1075503

Die Number: D00529

Alloy & Temper: 6061-T6511

Production Description: CUSTOM ALUMINIUM EXTRUSION (Round Bar)

Round Bar 4"x 12' 6061-T6511

Length (inch): 144

By die number: 17-P-292-055, 17-P-292-057, 17-P-292-058, 17-P-292-056

Heat Number: SXA171313

Date: 26/07/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.658	0.989	0.240	0.264	0.017	0.086	0.012	0.021	98.622	<0.05	<0.10	23/7/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
41.2	38.4	12.9	23/7/2017

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

5141

KAL-IV

TRA 1993

49573

Global Vietnam
Aluminium Co., Ltd

GLOBAL VIETNAM ALUMINIUM CO., LTD

TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TƯỠI NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

Address: My Xuan B1-Connac industrial zone, My Xuan town, Tho Thanh district,
Ba Ria-Vung Tau province, Viet Nam
Tel: +84(0)643924954
Fax: +84(0)643924953

MILL TEST CERTIFICATEDate: June 16th 2015

Consignee: SINOMETAL RESOURCES INC.
9470 HENRI-BOURASSA OUEST ST-LAURENT, QC H4S 1N6, CANADA
PO number: 15-P-041
Shipping Ref No: 15-0223
LC No: DC11VN330604
Date of Issue: 22 June, 2015
Item Code: 1043003
Die Number: D00004
Alloy & Temper: 6061-T6
Production Description: Round Bar 1" X 30'
Length (inch): 240
Quantity (pieces): 53
Bundle number: 15-P-041-007
Heat Number: SXB150069
Lot Number: Y150362C
Date: 15-04-2015
Applicable Specifications: ASTM B221 STANDARDS
CHEMICAL ANALYSIS: %

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other		Al	Remarks
								EACH	TOTAL		
0.548	0.110	0.204	0.000	0.889	0.106	0.001	0.007	<0.05	<0.15	98.153	11/04/2015

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remarks
48.1	43.5	13.2	11/04/2015

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

47345

TRA 904
5144

Test de dureté Rockwell Rockwell Hardness Test

Cliant / Customer : LES ACIERS TRANSBEC (1997) LTEE

Adresse / Address : 4054 BOUL LE CORBUSIER # 201
LAVAL QC
H7L5R2

commande Sapa / Sapa order # : 7010442

bon de commande / Purchase order # : OU-47042

de matrice / Die # : MS 16001

Description : 2.25" DIA. ROD

Alliage & trempage / Alloy & temper : 6061 T6

Longueur / Length : 6097 mm

Contrôle / Control # : 83103-1

Coulée / Cast # : 68252

Dureté Rockwell E /
Rockwell E hardness : 96 HRE

Min. requis /
Min. required : 88 HRE

Max. permis /
Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	B
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	—	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : 2017-02-08



Gilles Pelletier
Technicien de la qualité
Quality technician

C 17182

VIRAJ PROFILES LIMITED**VIRAJ**

Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Village- MAAN, Taluka- PALGHAR, Dist- THANE, MAHARASHTRA -401 506, INDIA,
e-mail- vclqc@viraj.com

MILL'S CERTIFICATE

ORDER NO	PACKING LIST NO	INSPECTION NO	DATE
04885	64/1008331/5	100006886214	07.07.2016
		GRADE 304/304L	HEAT No 102445

BUNDLE NO :
1100534981, 1100534980,

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

COLD DRAWN POLISHED - 2H

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
7/16"	ROUND	ASTM A484	12' - 14'	328	2,020,000 LB

CHEMICAL ANALYSIS

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0270	1.380	0.420	0.0220	0.0340	18.400	8.060	0.700	0.340	0.150	0.08500

TEST RESULTS

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction Of Area %	Hardness BHN	Grain Size NOS
94.0	108.0	42.0	70.0	220.0	7.0

SPECIFICATION:

MATERIAL CONFIRMS TO DIN EN 10088-3:2005;WNR 1.4301/1.4307,EN 10222-5 AND EN 10272 COND-A & ASTM A182/A-182M-16, ASTM A276/A276M-16 COND A, A479/A479M-15 COND A, A193/A193M-12b B8 CL-1, A320/A320M-11a B8 CL-1, A484 16, A388/A388M-05 ASME SA182-14, SA479-11, SA 193-11 B8 CL-1, SA320-11 B8 CL-1, ASTM A314-2008, IGC SATISFACTORY AS PER ASTM A 262-10 PRACTICE E, AMS 5639H /AMS5647J (EXCEPT MARKING), QQ-S-763F, NACE MR0103-2012, NACE-MR0175/ISO-15156-2015, SAB-AMS-S-7720A, MIL-S-862-B, AISI 304/304L & UNSW30400/30403, CERTIFICATION AS PER EN 10204-3.1.

REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO-FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES, MACRO-GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1/2 HRS, WATER QUENCHED. MELT SOURCE:AOD. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

WORKS INSPECTOR
K R K MURTHY

#5763

RSS-38-12 48194

P06840



CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

HEAD OFFICE: 10, CHANDAN, K.A. ROAD, CHANDAN, CHANDAN, CHANDAN

Tel: 91-98-4000000 Fax: 91-98-4000000/21

Website: www.chandansteel.com

Email: info@chandansteel.com

L/c No:

L/c Date:

EXPORT: First Flr. 10, G.I.D.C., Gandhinagar

Dist: Gandhinagar, Gujarat - 382 015

Tel: 91-98-4000000 Fax: 91-98-4000000/21

Email: export@chandansteel.com

FORM QC 00A / 02 / 10.11.2012

MILL TEST / INSPECTION CERTIFICATE 3.1

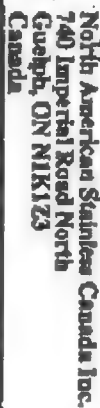
ACCORDING TO EN 10204 : 2005

PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS						Test Certificate No. : ECP/00837 - 13/2016-2017		Date of Issue : 08.07.2016		P. O. No. : FUG072											
						SC. No. & Date : 15-16/00804, Dt. 13.04.2016		Invoice No. & Date : ECP/00837/2016-17 Dt. 08.07.2016													
						Ordered : 12 - 12"		Actual : 12 - 12"		Net Wt. : 6480 LBS.											
Hest No. CH-0840						Grade AISI/EN 304/304L 1.4301/1.4307 (UNS30400/30403)		Size 3/8"		Tolerance M		Process Route Electric Melting, A.O.D. Refining, Continuous Casting									
CHEMICAL COMPOSITION (Weight %)																					
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	N										
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-										
Max.	0.030	1.00	2.00	0.045	0.030	28.00	1.00	10.50	1.00	-	0.1000										
Results	0.019	0.42	1.71	0.009	0.020	18.21	0.32	8.05	0.41	0.20	0.0090										
MECHANICAL PROPERTIES																					
Specified Values	Test Method :- EN ISO 682-1					Hardness EN ISO 682-1 (HBS)	Test Method :- Charpy "V" Notch Impact Tested (Temp) as per EN ISO 148-1 Sample Size - Test Temp. :- 20 °C (Standard)														
	Proof Strength N/mm² / MPa		Tensile Strength N/mm² / MPa (Rm)		Elongation after Fracture A %		Reduction of Area %	Sample Size - Test Temp. :- 20 °C (Standard)													
	0.2% (Rp0.2)		1% (Rp1.0)		%		%		%												
Results	534		580		712		47		45		215-215		N.A.		N.A.		N.A.		N.A.		
Remarks:																					
1. Cold drawn & Continuous Ground.											2. Solution annealed at 1050 °C.										
3. PMI test done 100% & found Satisfactory.											4. Material is free from x-ray active contamination.										
5. Material is free from surface contamination.																					
6. Inter-Granular Corrosion Test as per ASTM A262 - 13 (Pt.1) satisfactory.																					
7. No welding or weld repairs were performed on this material while in our possession.																					
8. Micro structure reveals equiaxed grains of Austenite & free from carbide precipitation.																					
9. Grain size - No. 7-8 of ASTM as per E112-06.																					
10. The material conforms to ASTM A276-15, ASTM A182/A182M-15, ASME SA 182/SA 182M-15, ASTM A675/A675M-15, ASME SA675/SA 675M-15, ASTM A192/A192M-15, ASME SA192/SA 192M-15, ASTM A320/A320M-15, ASME SA320/SA 320M-15, ASTM A322/A322M-15, ASME SA322/SA 322M-15, ASME QQ-S-700 COND A, AMS-3001, AMS-3001H, EN 10204-3 : 2014 & DIN EN 10272-2015 Specification.																					
11. Location of sample - Center, Direction - Longitudinal, Test Temp. - Room Temp., Shape of Test Piece - Round.																					
12. Marking details - Company Logo, Size, Grade & Hest No.																					
13. The material is manufactured / made in Chandan Steel Mill and is of Indian Origin.																					
BUNDLE NO. : 47 to 51											COLOUR : RED										

It is hereby certified that the above results are true and correct in every detail and are meeting the requirements of specification & purchase order.

R. S. RAUTELA
MANAGER - QUALITY ASSURANCE





METALLURGICAL TEST REPORT

6830 Highway 42 East
Cheat, KY 41045-9615
(502) 347-6000

CERTIFICATE: 276092 4

Chocoma: 007080 003

Date: 3/22/2017 Page: 1

Bleed: 303

Flask: 60

WAS ORDER, IN 0244060 03

Corrosion:
Red Ratio: 69.4

PRODUCT DESCRIPTION

ROUND REC. XRAYED, COLD DRY
WTS 30300, XRAY 1582/12 EW 10206 3.1. NRTN A484/15
DMS 5640V TYPE 1. Q08-7445 COORDINATION A
SOLUTIONS ANALYST TEND 19005 XDC

民主集中制

COMPLETING VENDOR STATEMENTS OF DATA 251.745-009 TO DIRECTIVE 2013/65/EU. K&S. BAP+ADD-CC. NO FURTHER REPORT. RELATED AND INFO IN USA. FILES FROM K&S/CC/CC AND FOR DELIVERING ALLOC. CONFIDENTIALITY

Product Id	Std # Diameter	Size	Weight	Length	Mark	Notes	Commodity Code
214000 0	1.0000		239	244.00	3	1	

CHEMICAL ANALYSIS

CH(Country of Host) EG(Egypt) US(United States) ZA(South Africa) JP(Japan)

Standard Analyze per ASTM A751/240

NO. BEAC	CM	C %	CO %	GN %	CV %	MR %	MO %	W %	WT %	Z %
232X	CS	.0397	.6878	17.0705	.2688	1.8320	.2685	.6422	1.9350	.0358
	B %	81 %								
		.3255	.5060							

MECHANICAL PROPERTIES

Product ID	1 0 1 0 1	03 Mo.	.218 YBT	UTB RAX	RA %	ELIG 3 4D
314098 0	R L	155.0	43.00	86.00	56.00	65.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

**Technical
Dept. Mgr.**

KRIS LARK

3/22/2017

#5761

RSS-34303-V

PO.12850


CHANDAN STEEL LIMITED
 (GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001:2008 CERTIFIED (7374.01) ISO 14001:2004

ADMIN. OFFICE: 111, RAUTWARA, A. S. L. STATE MARKET, MUMBAI 400 002, INDIA

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Website: www.chandansteel.com

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L/t. No.:

L/t. Date:

WORKS: Plot No. 26, C. I. D. C., Undhagan

Dist. Vasai/Tal. Jajuri - 395 172

Tel: 91-22-308 9989 Fax: 91-22-308 9992

E-mail: export@chandansteel.com

FORM QC 01A/02/2012281

MILL TEST/INSPECTION CERTIFICATE 3.1
 ACCORDING TO EN 10204:2005

						Test Certificate No. : EDO/00236-01/2017-2018 Date of Issue : 31.05.2017 F. O. No. : MNS500 SC No. & Date : 1647/00734, Dt. 16.03.2017 Invoice No. & Date : EXE/00236/2017-18 Dt. 31.05.2017					
PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS						LENGTH		Net Wt.			
						Ordered	Actual	478 LBS.			
						12'-16"	12'-16"				
Heat No.	Grade	Size	Tolerance	Process Route							
CH-6094	AISI 303	3/4"	19	Electric Melting, A.O.D. Refining, Continuous Casting							
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N
Min.	-	-	-	-	0.150	17.00	-	8.00	-	-	-
Max.	0.150	1.00	2.00	0.030	-	19.00	-	10.00	-	-	-
Results	0.013	0.48	1.86	0.006	0.220	17.25	-	8.08	-	-	-
MECHANICAL PROPERTIES-											
Specified	Yield Strength		Tensile Strength		Elongation	Reduction of Area		Hardness			
Value	N/mm ² /MPa(Rp0.2)		N/mm ² /MPa(Rm)		%	%		(HB)			
Min.	-		-		-	-		-			
Max.	-		-		-	-		362			
Results	368		718		37	60		229-228			
Remarks: 1. Cold drawn & Centreless Ground. 2. Solution annealed at 1050 °C. 3. PMI test done 100% & found Satisfactory. 4. Material has improved machinability. 5. Material is free from radio-active contamination. 6. The material conforms to ASTM A582/A582M-12 Specifications. 7. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round. 8. Marking details - Company Logo, Size, Grade & Heat No. 9. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin. 10. No welding/weld repairs was performed on this material.											
BUNDLE NO: 11											

It is hereby certified that the above results are true and correct in every detail and are meeting the requirements of specification & purchase order.

R. S. RAUTWARA
 MANAGER - QUALITY ASSURANCE

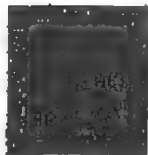


2727

FOR-13

TR-1923

49193

GOLD FINISHED
FLAT BARS

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CERTIFICADO DE CALIDAD

Destinatario: LES ACIERS TRANSBEC
Material: COLD ROLL SAB 1018. ACCORDING TO ASTM A108

CERTIFICAMOS: Que el material suministrado con cargo a los pedidos de referencia y amparado por nuestro albarán Nº **EXK4,773** y Fra. Nº **IV17/286** corresponden a los análisis y fusiones siguientes de acuerdo con la norma EN 10204 / 2.2:

S/Pedidos Nº	Composición Química de la colada								Caract. mecánicas laminado		
	MATERIAL	CALIDAD	COLADA	C %	Mn %	Si %	S %	P %	Re N/mm2	Rm N/mm2	A %
MN-47089	5 X 3/8		171108	0,15	0,77	0,14	0,002	0,016	554,00	580,00	12,00
MN-47093	2 X 1/4		590449	0,16	0,76	0,20	0,011	0,017	329,00	495,00	20,00
MN-47093	5 X 3/8		171108	0,15	0,77	0,14	0,002	0,016	554,00	580,00	12,00
MN-47093	6 X 3/4		170723	0,17	0,75	0,19	0,002	0,021	553,00	580,00	14,00
OU-48311	2 X 3/4	FOR 342	171454	0,16	0,73	0,19	0,005	0,017	397,26	446,12	26,18
OU-48311	3 X 3/4	FOR 343	171455	0,15	0,70	0,16	0,005	0,017	328,17	455,80	24,31
OU-48311	3 X 1	FOR 13	171456	0,15	0,70	0,19	0,004	0,019	319,60	453,88	26,57
OU-48311	4 X 1/2	FOR 154	171428	0,16	0,81	0,18	0,011	0,017	315,61	448,72	26,44
PAJ-48098	2 X 1/2		171444	0,17	0,79	0,19	0,007	0,016	313,22	482,60	24,10
PAJ-48098	3 X 3/8		171438	0,19	0,80	0,24	0,008	0,017	325,45	456,76	24,91
PAJ-48098	3 X 3/4		171455	0,15	0,70	0,16	0,005	0,017	328,17	455,80	24,31
PAJ-48098	3 X 1-1/2		170400	0,16	0,79	0,18	0,004	0,016	328,17	455,80	24,31
PAJ-48098	6 X 1/2		171612	0,16	0,82	0,20	0,004	0,018	550,00	576,00	13,00
PAJ-48098	6 X 1		170932	0,17	0,75	0,16	0,005	0,019	557,00	585,00	14,00
PAJ-48098	8 X 3/4		162602	0,18	0,79	0,16	0,003	0,013	558,00	586,00	14,00
PAR-48178	2 X 3/16		54305	0,15	0,70	0,18	0,036	0,011	348,00	481,00	32,70
PAR-48178	6 X 1/2		171612	0,16	0,82	0,20	0,004	0,018	550,00	576,00	13,00

Gernika (SPAIN), 11 de Septiembre de 2017

Responsable de Calidad



QUALITY
MANAGER



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 48819

ALBARAN 48819 Delivery Note No.	CLIENTE LES ACIERS TRANSBEC (1997) LTÉE CUSTOMER
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Normas : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A105

PAR-47851	1018 CUA. ESTIRADO 12,70 (1/2")	880	-0,110	916617	12,70
OU-47812	1018 CUA. ESTIRADO 12,70 (1/2")	982	-0,110	916617	12,70
AQM-47672	1018 CUA. ESTIRADO 38,10 (1 1/2")	1.018	-0,160	139549	38,10
PAJ-48073	1018 CUA. ESTIRADO 12,70 (1/2")	990	-0,110	916617	12,70
PAJ-48073	1018 CUA. ESTIRADO 38,10 (1 1/2")	1.016	-0,160	139756	38,10
MJP-47896	1018 CUA. ESTIRADO 38,10 (1 1/2")	2.032	-0,160	139775	38,10
MNL-47094	1018 CUA. ESTIRADO 38,10 (1 1/2")	892	-0,160	139817	38,10
MNL-47094	12L14 RED. ESTIRADO 31,75 (1 1/4")	892	-0,051	202514	31,75
PAJ-48097	1018 CUA. ESTIRADO 38,10 (1 1/2")	886	-0,160	140120	38,10
PAR-48177	1018 CUA. ESTIRADO 25,40 (1")	1.036	-0,130	916780	25,40
PAR-48177	1018 RED. ESTIRADO 25,40 (1")	4.004	-0,051	140110	25,40
PAR-48177	12L14 RED. ESTIRADO 22,23 (7/8")	994	-0,051	202551	22,23
PAR-48177	12L14 RED. ESTIRADO 28,58 (1 1/8")	1.056	-0,076	916960	28,58
MJP-48227	1018 RED. ESTIRADO 12,70 (1/2")	1.030	-0,051	148121	12,70
OU-48310	12L14 RED. ESTIRADO 15,88 (5/8")	1.008	-0,051	140427	15,88
OU-48310	1018 RED. ESTIRADO 6,35 (1/4")	1.062	-0,051	140428	6,35
OU-48310	1018 RED. ESTIRADO 19,05 (3/4")	2.044	-0,051	140430	19,05
OU-48310	1018 RED. ESTIRADO 12,70 (1/2")	1.060	-0,051	140431	12,70
AQM-47689	1018 RED. ESTIRADO 9,53 (3/8")	990	-0,051	140166	9,53

Composición química de la calada / Chemical Analysis of Steel

MEDIDA	OF	COLADA	%	%	%	%	%	%	%	%	%	%	%	%
Measurement		Cast No.	C	Cr	Cu	Mn	Mo	N	Ni	P	Fe	S	Si	
12,70	0,00	916617	0,150	0,000	0,000	0,769	0,000	0,000	0,000	0,015	0,000	0,009	0,194	
12,70	0,00	916617	0,150	0,000	0,000	0,769	0,000	0,000	0,000	0,015	0,000	0,009	0,194	
38,10	0,00	139549	0,165	0,000	0,150	0,760	0,000	0,000	0,000	0,010	0,000	0,012	0,230	
12,70	0,00	916617	0,150	0,000	0,000	0,769	0,000	0,000	0,000	0,015	0,000	0,009	0,194	
38,10	0,00	139756	0,165	0,000	0,150	0,760	0,000	0,000	0,000	0,010	0,000	0,012	0,230	
38,10	0,00	139775	0,165	0,000	0,150	0,760	0,000	0,000	0,000	0,010	0,000	0,012	0,230	
38,10	0,00	139817	0,165	0,000	0,150	0,760	0,000	0,000	0,000	0,010	0,000	0,012	0,230	
31,75	0,00	202514	0,070	0,140	0,270	1,110	0,030	0,000	0,120	0,052	0,210	0,313	0,020	
38,10	0,00	140120	0,165	0,000	0,150	0,760	0,000	0,000	0,000	0,010	0,000	0,012	0,230	
25,40	0,00	916780	0,160	0,000	0,000	0,720	0,000	0,000	0,000	0,016	0,000	0,023	0,160	
25,40	0,00	140110	0,170	0,000	0,000	0,670	0,000	0,000	0,000	0,011	0,000	0,018	0,134	
22,23	0,00	202551	0,087	0,046	0,012	1,130	0,006	0,000	0,023	0,064	0,270	0,300	0,003	
28,58	0,00	916960	0,168	0,000	0,010	0,690	0,011	0,000	0,024	0,056	0,300	0,300	0,005	
12,70	0,00	140121	0,170	0,000	0,029	0,710	0,000	0,007	0,000	0,020	0,000	0,008	0,160	
15,88	0,00	140427	0,066	0,028	0,085	1,125	0,010	0,000	0,033	0,044	0,260	0,304	0,012	
6,35	0,00	140428	0,160	0,000	0,000	0,750	0,000	0,000	0,021	0,000	0,032	0,160		
19,05	0,00	140430	0,177	0,000	0,119	0,787	0,000	0,002	0,000	0,013	0,000	0,022	0,201	
12,70	0,00	140431	0,160	0,000	0,260	0,720	0,000	0,012	0,000	0,013	0,000	0,012	0,170	
9,53	0,00	140166	0,160	0,000	0,000	0,750	0,000	0,000	0,000	0,021	0,000	0,032	0,160	



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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 48819

ALBARAN 48819
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

Características mecánicas / Mechanical properties

MEDIDA	OF	COLADA	Resistencia	Límite elástico	Alargamiento	Dureza HB	Estiración %	
Measurement		Cast Nr.	Tens. strength N/mm2	Yield point 0,2% N/mm2	Elongation Lo=50 mm.	Hardness HB		
12,70		916617	41450	606,20	550,30	15,40	185,00	61,50
12,70		916617	41450	606,20	550,30	15,40	185,00	61,50
38,10		139549	41798	472,00	314,00	33,00	0,00	0,00
12,70		916617	41450	606,20	550,30	15,40	185,00	61,50
38,10		139756	41798	472,00	314,00	33,00	0,00	0,00
38,10		139775	41798	472,00	314,00	33,00	0,00	0,00
38,10		139817	41798	472,00	314,00	33,00	0,00	0,00
31,75		202514	40991 W	545,20	529,60	24,08	200,00	40,07
38,10		140120	41798	472,00	314,00	33,00	0,00	0,00
25,40		916780	41544 C	499,00	321,00	29,00	0,00	0,00
25,40		140110	41830 G	608,12	588,78	27,36	205,00	57,24
22,23		202551	41687 AG	551,91	540,60	17,60	190,00	49,80
28,58		916960	41658 AG	491,80	472,70	25,70	162,00	50,83
12,70		140121	41690 GM	647,41	585,28	16,92	228,00	63,62
15,88		140427	41826 G	588,93	579,26	11,28	175,00	41,65
6,35		140428	41480 GM	536,00	0,00	35,90	0,00	0,00
19,05		140430	41702 AG	609,50	579,72	16,86	180,00	61,57
12,70		140431	41705 GM	612,53	597,86	13,48	195,00	46,67
9,53		140166	41480 GM	524,00	0,00	33,50	0,00	0,00

Cálculo Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
12L14 RED. ESTIRADO 31,75 (1 1/4")	202514	3
12L14 RED. ESTIRADO 22,23 (7/8")	202551	3
12L14 HEX. ESTIRADO 28,58 (1 1/8")	916960	1
1018 RED. ESTIRADO 12,70 (1/2")	140121	3
12L14 RED. ESTIRADO 15,88 (5/8")	140427	3
1018 RED. ESTIRADO 6,35 (1/4")	140428	2
1018 RED. ESTIRADO 19,05 (3/4")	140430	2
1018 RED. ESTIRADO 12,70 (1/2")	140431	3
1018 RED. ESTIRADO 9,53 (3/8")	140166	2

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR



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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50069

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 48819

ALBARAN 48819
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfills the order specifications.

Fecha/Date: 20/09/2017

Firmado: Susana Fernández
Directora de Calidad



#5306

RCL-2-2C

TRA 1588

48474



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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a / Made according to:

EN 10204/DIN 50049

3-1

Nº CERTIFICADO / CERTIFICATE NR.: 47901

ALBARAN 47901 Delivery Note No.	CLIENTE LES ACIERS TRANSBEC (1997) I.TÉE CUSTOMER
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Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A106

Nº PEDIDO Purchase Order	DESCRIPCIÓN Description	ESPE- SOR	TOLERANCIA TOLERANCE	OF OF	MEC- DIDA
PAJ-47284	1018 RED. TORNEADO 101,6 (4")	1.989	-0,102	139585	
OC-47436	1018 RED. ESTIRADO 69,85 (2 3/4")	1.134	-0,102	138834	69,85
MUP-47531	1018 RED. ESTIRADO 57,15 (2 1/4")	1.050	-0,076	139149	57,15
MUP-47861	1018 RED. ESTIRADO 57,15 (2 1/4")	2.234	-0,076	139301	57,15
PAR-47786	1045 RED. ESTIRADO 50,80 (2")	1.074	-0,102	139307	50,80
OC-47572	1018 RED. ESTIRADO 69,85 (2 3/4")	751	-0,102	139335	69,85
MUP-47868	1018 RED. ESTIRADO 49,21 (1 15/16")	990	-0,076	139399	49,21
SM-47572	1018 RED. ESTIRADO 50,80 (2")	990	-0,076	139484	50,80
SM-47572	1018 RED. ESTIRADO 57,15 (2 1/4")	1.050	-0,076	139485	57,15
AQM-47672	1018 RED. ESTIRADO 49,21 (1 15/16")	1.882	-0,076	139550	49,21
AQM-47672	1018 RED. ESTIRADO 50,80 (2")	992	-0,076	139551	50,80
OC-47832	1018 RED. ESTIRADO 50,80 (2")	992	-0,076	139621	50,80
PAJ-48073	1018 RED. ESTIRADO 49,21 (1 15/16")	694	-0,076	139755	49,21
PAJ-48073	1018 RED. ESTIRADO 50,80 (2")	988	-0,076	139754	50,80
MD-47094	1018 RED. ESTIRADO 50,80 (2")	994	-0,076	139815	50,80
PAR-46154	1018 RED. ESTIRADO 57,15 (2 1/4")	1.185	-0,076	139763	57,15
MUP-47896	1018 RED. ESTIRADO 50,80 (2")	3.264	-0,076	139780	50,80
MUP-47896	1018 RED. ESTIRADO 57,15 (2 1/4")	1.188	-0,076	139779	57,15

Composición química de la colada / Chemical Analysis of Hot

MEDIDA Measurement	OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mn	% Mo	% Ni	% P	% S	% Si
101,60 0,00	139585	41529	0,150	0,000	0,000	0,600	0,000	0,000	0,000	0,000	0,100
69,85 0,00	138834	41577 AG	0,173	0,000	0,132	0,817	0,000	0,003	0,010	0,022	0,218
57,15 0,00	139149	41574 AG	0,179	0,000	0,103	0,776	0,000	0,003	0,012	0,024	0,207
57,15 0,00	139301	41574 AG	0,179	0,000	0,103	0,776	0,000	0,003	0,012	0,024	0,207
50,80 0,00	139307	41479 AG	0,470	0,187	0,000	0,760	0,003	0,000	0,012	0,020	0,197
69,85 0,00	139335	41577 AG	0,173	0,000	0,132	0,817	0,000	0,003	0,010	0,022	0,218
49,21 0,00	139399	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
50,80 0,00	139484	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
57,15 0,00	139485	41574 AG	0,179	0,000	0,103	0,776	0,000	0,003	0,012	0,024	0,207
49,21 0,00	139550	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
50,80 0,00	139551	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
50,80 0,00	139621	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
49,21 0,00	139755	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
50,80 0,00	139754	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
50,80 0,00	139815	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
57,15 0,00	139763	41574 AG	0,179	0,000	0,103	0,776	0,000	0,003	0,012	0,024	0,207
50,80 0,00	139780	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
57,15 0,00	139779	41574 AG	0,179	0,000	0,103	0,776	0,000	0,003	0,012	0,024	0,207

Características mecánicas / Mechanical properties



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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47901

ALBARAN 47901 Delivery Note No.	CLIENTE LES ACIERS TRANSSEC (1997) LTÉE CUSTOMER
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Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norma:

Bright steel products. Technical delivery conditions.

MEDIDA Measurement	OF	COTADA Cut Nr.	Resistencia Tens. strength N/mm ²	Límite elástico Yield point 0,2% N/mm ²	Alargamiento Elongation L ₀ =50 mm.	Dureza HB Hardness HB
101,60	139585	41529	458,00	299,00	30,00	135,00
69,85	138834	41577 AG	457,00	0,00	0,00	0,00
57,15	139149	41574 AG	471,00	0,00	0,00	0,00
57,15	139381	41574 AG	471,00	0,00	0,00	0,00
50,80	139307	41479 AG	731,00	0,00	0,00	0,00
69,85	139335	41577 AG	457,00	0,00	0,00	0,00
49,21	139399	41607 AG	459,00	0,00	0,00	0,00
50,80	139484	41607 AG	459,00	0,00	0,00	0,00
57,15	139485	41574 AG	471,00	0,00	0,00	0,00
49,21	139550	41607 AG	459,00	0,00	0,00	0,00
50,80	139551	41607 AG	459,00	0,00	0,00	0,00
50,80	139621	41607 AG	459,00	0,00	0,00	0,00
49,21	139755	41607 AG	459,00	0,00	0,00	0,00
50,80	139754	41607 AG	459,00	0,00	0,00	0,00
50,80	139815	41607 AG	459,00	0,00	0,00	0,00
57,15	139763	41574 AG	471,00	0,00	0,00	0,00
50,80	139780	41607 AG	459,00	0,00	0,00	0,00
57,15	139779	41574 AG	471,00	0,00	0,00	0,00

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1

Observaciones: BARRAS DE ACERO ESTIRADAS / TORNEADAS EN FRIO SIN ALFAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Dat.: 21/06/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Calidad
ISO 9001:2008
www.calibrados.es
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL M1018R2.00
 DATE FEB 01 2018

PO / BATCH NO 038898/5032949

MATERIAL CERT REQ'D yes
 QUANTITY RECEIVED 20"
 QUANTITY INSPECTED 20"
 QUANTITY REJECTED 0

THICKNESS ORDERED 2.00
 THICKNESS RECEIVED 2.00
 SHEET SIZE ORDERED N/A
 SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	<u>Astm A108</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	<u>Heat #41607 AG</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR C	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION **ENGINEERING SIGNOFF (if required)**

INSPECTED BY: DAS 11
 DATE: 9-89 FEB 01 2018

SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
SPECIFICATION: MIL-S-7097 OR ASTM A108
PART NUMBER: M1018-R10.DDD WHERE D.DDD = DIAMETER IN INCHES
D/A.

EG. 7/8" ROUND BAR = M1018-R0 875

TOLERANCES: PER ASTM A108 AS FOLLOWS:

SIZE TOLERANCE
UP TO 1 1/2" INCL. +0.000/-0.002
OVER 1 1/2" TO 2 1/2" INCL. +0.000/-0.003
OVER 2 1/2" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RELEASED
2012-09-24

B	REFORMAT: ADD ASTM A108, ADD TOLERANCES	CP	12 09 05
A	NEW ISSUE	DS	01 06 12
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	CP		
CHECKED	CP		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.09.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M1018-R			
REV. B			
SHEET 1 OF 1			
TITLE 1018-1025 ROUND BAR			
SCALE NTS			
DATE 12.09.05			
COPYRIGHT © 2001 BY DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018R0.250
 DATE: FEB 01 2018

PO / BA / OF NO: 038893/603948

MATERIAL CERT REQ'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250
 THICKNESS RECEIVED: 0.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	<u>Astm A108</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	<u>Heat # 41480 Am</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS 11
 DATE: 9-89 FEB 01 2018

SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

SPECIFICATION:

MIL-S-7097 OR ASTM A108

PART NUMBER:

M1018-R/D DDD WHERE D DDD = DIAMETER IN INCHES
DIA.

EG. 7/8" ROUND BAR = M1018-R0 875

TOLERANCES

PER ASTM A108 AS FOLLOWS:

SIZE	TOLERANCE
UP TO 1.5" INCL.	+0.000/-0.002
OVER 1.5" TO 2.5" INCL.	+0.000/-0.003
OVER 2.5" TO 4.0" INCL.	+0.000/-0.004
OVER 4.0" TO 6.0" INCL.	+0.000/-0.005
OVER 6.0" TO 8.0" INCL.	+0.000/-0.006

1018-1025
2012-09-24

B		REFORMAT. ADD ASTM A108, ADD TOLERANCES		CP	12.09.05
A		NEW ISSUE		DS	01.08.12
REV		DESCRIPTION	BY	DATE	
DESIGN	DS				
DRAWN	CP				
CHECKED	CP				
MFG. APPR.					
APPROVED					
DE APPR.					
DATE	12.09.05	TITLE		REV. B	
		1018-1025 ROUND BAR		SHEET 1 OF 1	
				SCALE	
				NITS	

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303R0.750
 DATE FEB 01 2018

PO / BATCH NO 038893/5087946

MATERIAL CERT REQ'D YES
 QUANTITY RECEIVED 96"
 QUANTITY INSPECTED 96"
 QUANTITY REJECTED 0

THICKNESS ORDERED 0.750
 THICKNESS RECEIVED 0.750
 SHEET SIZE ORDERED N/A
 SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>A582</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Heat # CH6094</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
 RECORD RESULTS BELOW

	HRC	HRB	DJR A	DJR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS
11
 DATE: 9-89 FEB 01 2018

SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: ~~ASTM~~ 304/316 NOT ACCEPTABLE)


SPECIFICATION:
PART NUMBER:

ASTM A582
M303R(D.DDD
DIA.

WHERE "D DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

RELEASED
R 2010-02-02
AW

B	REFORMAT DWG. ADD SPECS (ZN DB-1). REF PAR 08-020A	CP	10.01.05
A	NEW ISSUE	DS	01.12.20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M303R			
TITLE 303 ROUND BAR			
SCALE NTS			
SHEET 1 OF 1			
REV. B			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL M304RC.375
 DATE FEB 01 2018

PO BA OF NO 038893/037945

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 24"
 QUANTITY INSPECTED 24"
 QUANTITY REJECTED 0

THICKNESS ORDERED 0.375
 THICKNESS RECEIVED 0.375
 SHEET SIZE ORDERED N/A
 SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>Astm A276</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>Heat # ch 3840</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
 RECORD RESULTS BELOW

	HRC	HRB	DJR A	DJR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 FEB 01 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION:

PART NUMBER:

ASTM A276
M304R0 DDD
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0 750

RELEASED
07/08/23

B	REFORMAT DWG. ADD SPECS (2N DB-1)	CP	09.07.15
A	NEW ISSUE	AJS	08.03.03
REV.		BY	DATE
DESIGN	AJS		
DRAWN	QJ		
CHECKED	5		
MFG. APPR.	MD		
APPROVED	MD		
DE APPR.	MD		
DATE	09.07.15		
DART AEROSPACE LTD HAMKESBURY, ONTARIO, CANADA			
DRAWING NO. M304R			
TITLE 304/316 ROUND BAR			
REV. B			
SHEET 1 OF 1			
SCALE NTS			
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ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M304 RO.4375
DATE FEB 01 2018

PC BATCH NO 038893/502944

MATERIAL CERT REQ'D YES
QUANTITY RECEIVED 12'
QUANTITY INSPECTED 12'
QUANTITY REJECTED 0

THICKNESS ORDERED 0.4375
THICKNESS RECEIVED 0.4375
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	As per A276
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	Next # 102445
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DJR A	DJR D	TESTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 15 INSPECTION **ENGINEERING SIGNOFF (if required)**

INSPECTED BY: DAS 11
DATE 9-89 FEB 01 2018

SIGNED OFF BY: _____
DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION:
PART NUMBER:

ASTM A276
M304R(D.DDD)
DIA.

WHERE "D DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

RELEASED
09/07/15

B	REFORMAT DWG. ADD SPECS (ZN D6-1).	CP	08 07 15
A	NEW ISSUE	AJS	08 03 03
REV	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	QA		
CHECKED	15		
MFG. APPR.	M304R		
APPROVED			
DE APPR.			
DATE	09.07.15		
DART AEROSPACE LTD		REV. B	
HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1	
TITLE		SCALE	
304/316 ROUND BAR		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061 T6 R2.250
 DATE FEB 01 2018

PO / BA / CR / NO 038893/5037942

MATERIAL CERT REQ'D yes
 QUANTITY RECEIVED 6"
 QUANTITY INSPECTED 6"
 QUANTITY REJECTED 0

THICKNESS ORDERED 2.250
 THICKNESS RECEIVED 2.250
 SHEET SIZE ORDERED N/A
 SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORROSION	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	<u>Astm B221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	<u>Heat # 68257</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK
 RECORD RESULTS BELOW

	HRC	HRB	DJR A	DJR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION **ENGINEERING SIGNOFF (if required)**

INSPECTED BY: DAS 11
 DATE: 9-89 FEB 01 2018

SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B21

PART NUMBER: M6061T6R/D DDD

DIA.

WHERE "D DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

B	REFORMAT DWG. ADD B211 & B221 SPEC (ZN DA-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6R		REV. B	
TITLE 6061-T6 ROUND BAR		SHEET 1 OF 1	
SCALE NTS		DATE 09.07.13	
COPYRIGHT © 2001 BY DART AEROSPACE LTD			

RELEASED
2009-09-09
JAF

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 R1-000
 DATE: FEB 01 2018

PO / BATCH NO: 038893/5037942

MATERIAL CERT REQ'D: YES
 QUANTITY RECEIVED: 20"
 QUANTITY INSPECTED: 20"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Aston B221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat # 8XB150069</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
 RECORD RESULTS BELOW

	HRC	HRB	DURO A	DURO C	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS 11
 DATE: 9-89 FEB 01 2018

SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received at

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R/D.DDD

DIA

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

REV	DESCRIPTION	DATE
B	REFORMAT DWG, ADD B2118 B221 SPEC (ZN DB-1), REF PAR 08-020A	09.07.13
A	NEW ISSUE	DS 01.06.08
DESIGN		
DRAWN		
CHECKED		
MFG. APPR.		
APPROVED		
DE APPR.		
DATE	09.07.13	

DART AEROSPACE LTD		REV. B
HAMKESBURY, ONTARIO, CANADA		SHEET 1 OF 1
DRAWING NO.	M6061T6R	SCALE
TITLE	6061-T6 ROUND BAR	NTS
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RELEASED
2009-09-09
MAD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061+6R4-000
 DATE: FEB 01 2018

PO, BATCH NO. 038893/5037941

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.000
 THICKNESS RECEIVED: 4.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	<u>Astm B221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	<u>Heat #25XA17313</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 01 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in:

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R/D.DDD

| DIA. |

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R/D.625

RELEASED
2009-09-09
MSP

B	REFORMAT DWG. ADD B211 & B221 SPEC (2N DR-1).	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD		REV. B
HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1
DRAWING NO.	M6061T6R	SCALE
TITLE	6061-T6 ROUND BAR	NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018B1.000X03.000
 DATE: FEB 01 2018

PO BATCH NO: 038803/01947

MATERIAL CERT REQ'D: Yes
 QUANTITY RECEIVED: 12"
 QUANTITY INSPECTED: 12"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORROSION	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	Per M1010-B Rev A
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	Heat # 171456
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

per M1010-B Rev A
 Asm A108 acceptable

QC 18 INSPECTION INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 01 2018</u>	ENGINEERING SIGNOFF (if required) SIGNED OFF BY: <u>CRP</u> DATE: <u>10/2/2</u>
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.



DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED CP	APPROVED 	DRAWING NO M1010-B	REV A SHEET 1 OF 1
DATE 01.12.06		TITLE AISI 1010-1025 BAR	SCALE NTS
A	01.12.06	NEW ISSUE	

PURCHASE MATERIAL:

AISI 1010-1025 OR ASTM A36 / A366 / A569 / A570
OR CSA G40-21, 38W / 44W / 50W / 60W / 70W

PART NUMBER:

M1010-B

T.TTT	x	WW.WWW
THICK		WIDTH

WHERE T.TTT = THICKNESS (IN INCHES)
WW.WWW = WIDTH (IN INCHES)

EG. 0.75" x 2.50" BAR = M1010-B0.750 x 02.500

RELEASED
01.12.07

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